PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Anslation internation	PATENT COOPER PC				
INTERNATIONAL PRELIMINARY EXAMINATION REPORT					
	(PCT Article 3				
Applicant's or agent's file reference 47275/A27/DR	FOR FURTHER ACT		cation of Transmittal of Internation Examination Report (Form PCT/IPEA/41		
International application No. PCT/EP2003/009374	International filing date 23 August 2003	.•	Priority date (day/month/year) 31 August 2002 (31.08.2002)		
International Patent Classification (IPC) or a F24F 5/00, F25D 3/08, A41D 1		PC .			
Applicant ENTRAK ENE	RGIE- UND ANTRIE	BSTECHNIK (GMBH & CO. KG		
and is transmitted to the applicant a 2. This REPORT consists of a total of	according to Article 36. f sheets, i	ncluding this cover	national Preliminary Examining Authority sheet.		
This report is also accompanies amended and are the basis for 70.16 and Section 607 of the These annexes consist of a few	for this report and/or sheets to Administrative Instruction	containing rectific ons under the PCT).	cations made before this Authority (see R		
3. This report contains indications re		ns:			
II Priority	Priority				
III Non-establishmen	t of opinion with regard to	novelty, inventive	step and industrial applicability		
IV Lack of unity of in	nvention				
V Reasoned stateme citations and expl	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain document	s cited				
VII Certain defects in	the international applicati	on			
VIII Certain observation	VIII Certain observations on the international application				
Date of submission of the demand		Date of completio	n of this report		
11 December 2003 (11	1.12.2003)	()1 June 2004 (01.06.2004)		
Name and mailing address of the IPEA/E	iP	Authorized office	r		
Facsimile No.		Telephone No.			

International application No.

PCT/EP2003/009374

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I. Basis of the report								
1. With regard to the elements of the international application:*								
	the inter	the international application as originally filed						
$\overline{\boxtimes}$	the desc	cription:						
/	pages	1-15 , as originally filed						
	pages	, filed with the demand						
	pages	, filed with the letter of						
∇	the clair	me:						
	pages	, as originally filed						
	pages	, as amended (together with any statement under Article 19						
•	pages	, filed with the demand						
	pages	1-33 , filed with the letter of 17 February 2004 (17.02.2004)						
KZI	,							
M	the drav	10.70						
	pages	1/3-3/3 , as originally filed						
	pages	, filed with the demand						
_	pages	, filed with the letter of						
	the seque	ence listing part of the description:						
	pages	, as originally filed						
	pages	, filed with the demand						
	pages	, filed with the letter of						
These elements were available or furnished to this Authority in the following language								
5. E	the description, pages the claims, Nos the drawings, sheets/fig This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17). *** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.							

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International application No. PCT/EP 03/09374

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement			% .
	Novelty (N)	Claims	1-33	YES
		Claims		NO
	Inventive step (IS)	Claims	1-33	YES
		Claims		NO "
	Industrial applicability (IA)	Claims	1-33	YES
		Claims	•	NO NO

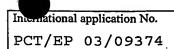
2. Citations and explanations

Document US-A-6 257 011 (D1) describes a wearable cooling device, in particular a personal cooling apparatus, with a small-scale casing (30) having a casing section containing a latent heat accumulator (60; see figures 3 and 5 and column 5, lines 60-67), said casing being provided with an intake (16, see figure 3) for a heat-exchanging gaseous medium (air) to be conducted past the latent heat accumulator and with an outlet (32; see figure 3) for releasing the cooled medium, and having a conveying means (65), which can be operated by an energy supply (batteries; see column 6, lines 18-22) provided in the casing, for conveying said medium for the self-sufficient operation of the cooling device.

A similar cooling device having these features is also known inter alia from document FR-A-2679017 (D2).

The invention according to claim 1 differs in that, at a position located downstream from the latent heat accumulator, a flap-like actuator (17) is provided by means of which it is possible to vary the degree of opening of a first medium channel (6), which conducts said medium past the latent heat accumulator (4), and of a second medium channel (18), which does not conduct the

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medium that is fed into the casing (2) past the latent heat accumulator.

This embodiment permits the mixing of cooled and uncooled medium. In this way, the user can regulate the temperature. An embodiment such as this with an actuator is not described by the available prior art nor can it be derived without exercising inventive skill. By contrast, the available documents show only a single medium channel.

Therefore, the novelty and the inventive step of claim 1 is acknowledged, and claim 1 satisfies the requirements of PCT Article 33.

The novelty, inventive step and industrial applicability of claims 2 to 30, which contain other developments of claim 1, are established by their dependence upon claim 1. Claims 31 and 32 relate to a cooling system comprising a cooling device according to one of claims 1 to 30. Claims 31 and 32 thus contain all of the features of claim 1 and therefore also satisfy the requirements of PCT Article 33. Claim 33 relates to a method for cooling a person which also employs a cooling device according to one of claims 1 to 30. Therefore, claim 33 likewise satisfies the requirements of PCT Article 33.